

Figure 1 COLT-1 gene targeting vector and the structure of the COLIA1 targeted locus

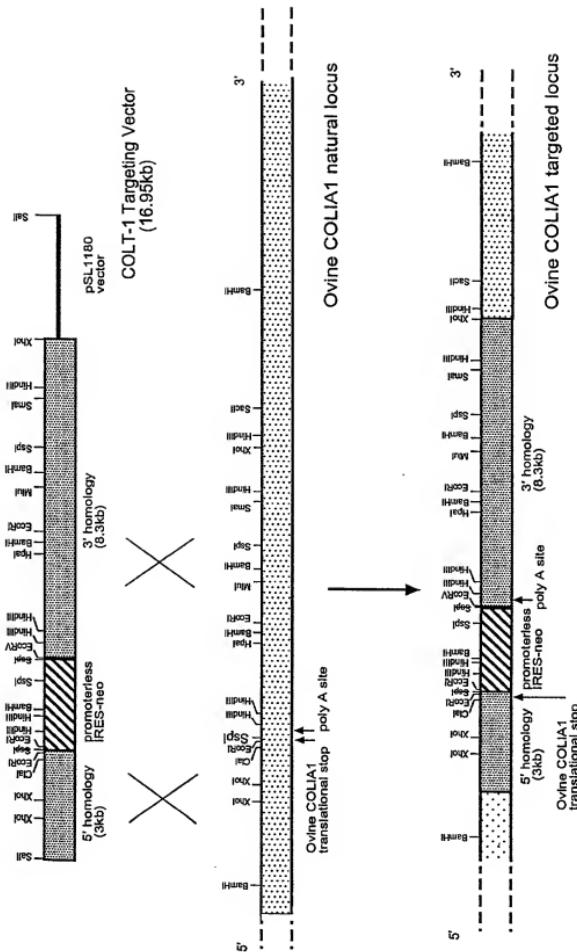


Figure 2. PCR screening strategy

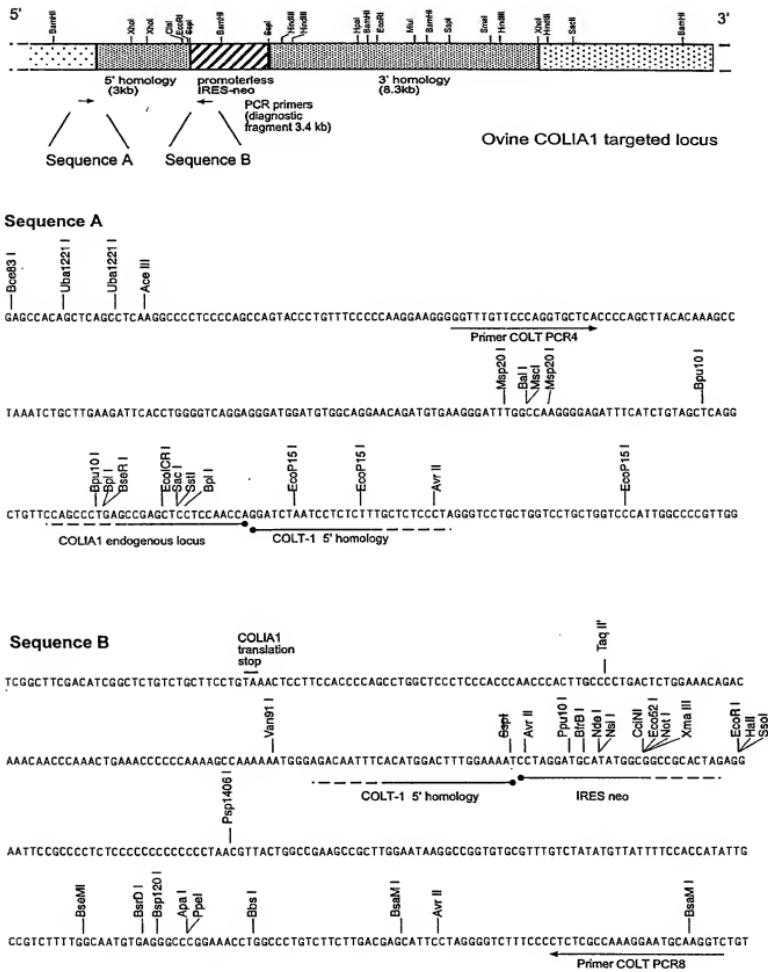
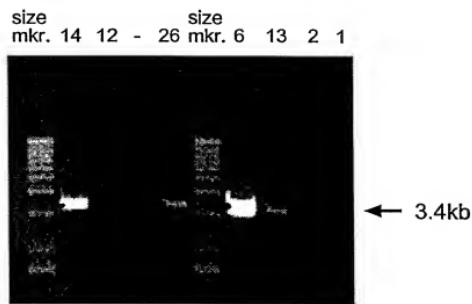


Figure 3. PCR screen of COLT-1 PDFF2 transfectants



10080713.022502

Figure 4. Sequence analysis at 5' junction of targeted locus

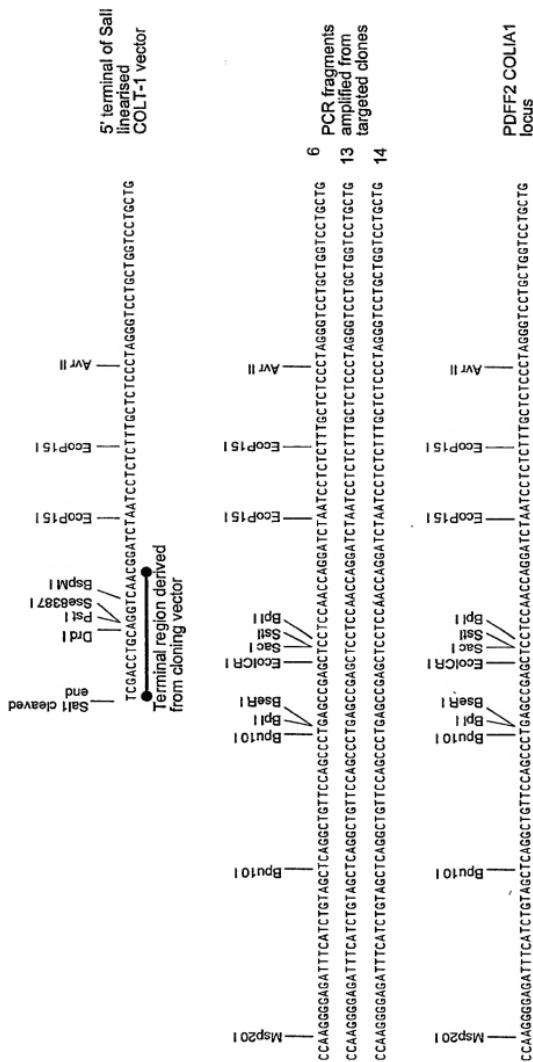


Figure 5. Construction of COLT-2 Transgene placement vector

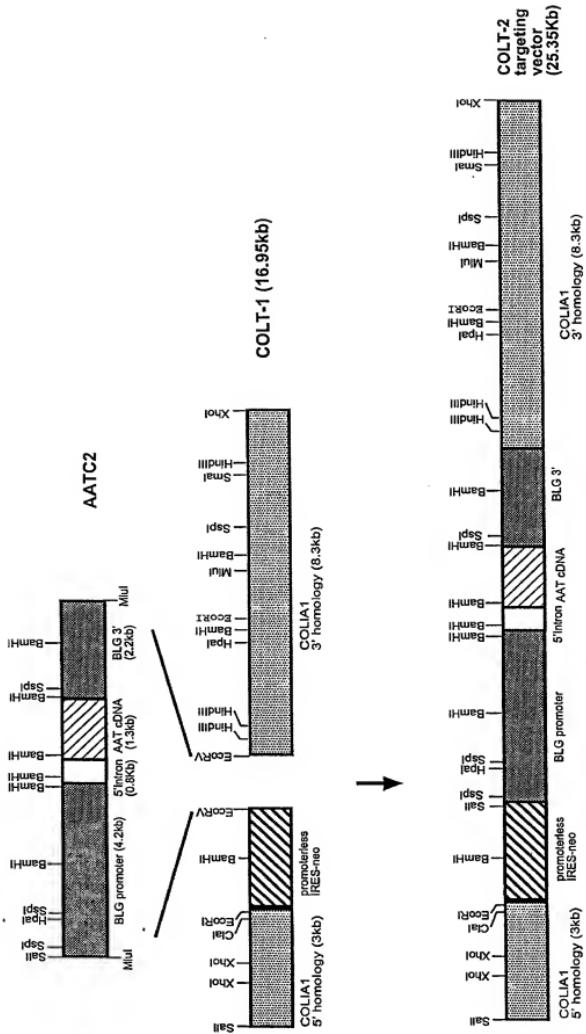
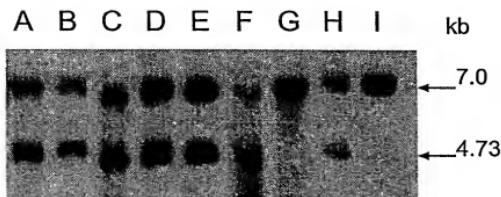


Figure 6. Southern analysis of gene targeted lambs



Key to lanes

COLT1 targeted lambs  
(nuclear transfer from cell clone PDCOL6)  
A. live lamb born from ewe 941235  
B. stillborn lamb from ewe 9600356  
C. live lamb born from ewe 950030  
D. stillborn lamb from ewe 941053.

COLT 2 targeted lambs  
(nuclear transfer from cell clone PDCAAT90)  
E. stillborn lamb from ewe NZ1418  
F. live lamb born from ewe 941026  
G. wild type lamb  
H. cell clone PDCAAT90  
I. non transfected PDFF2 cells

Figure 7. Structure of the COLT-1 and COLT-2 targeted loci

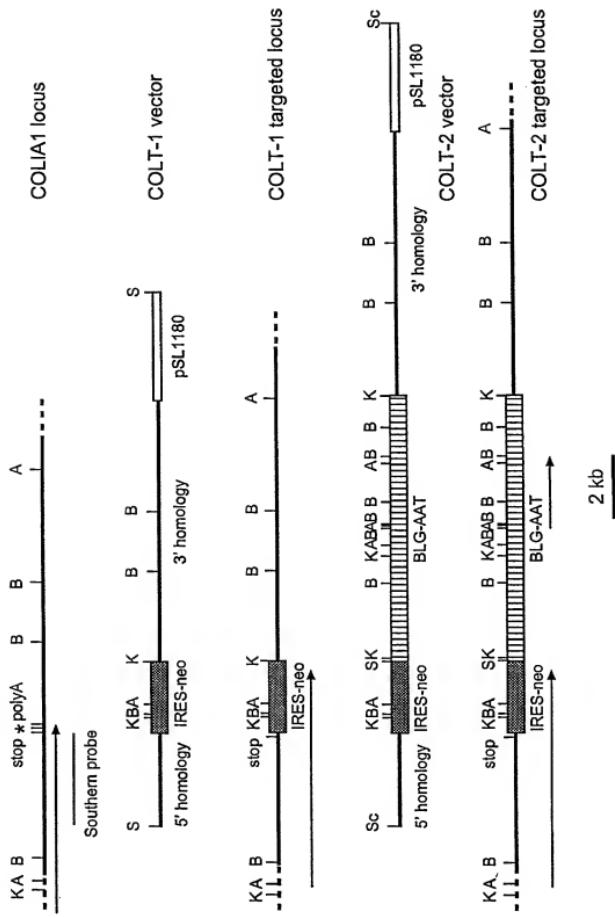


Figure 8. Southern analysis of COLT-2 transfected (PDCAAT) cell clones

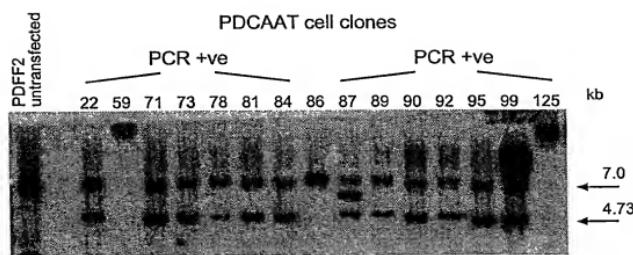


Figure 9. Northern analysis of COLT-2 targeted (PDCAAT) cell clones

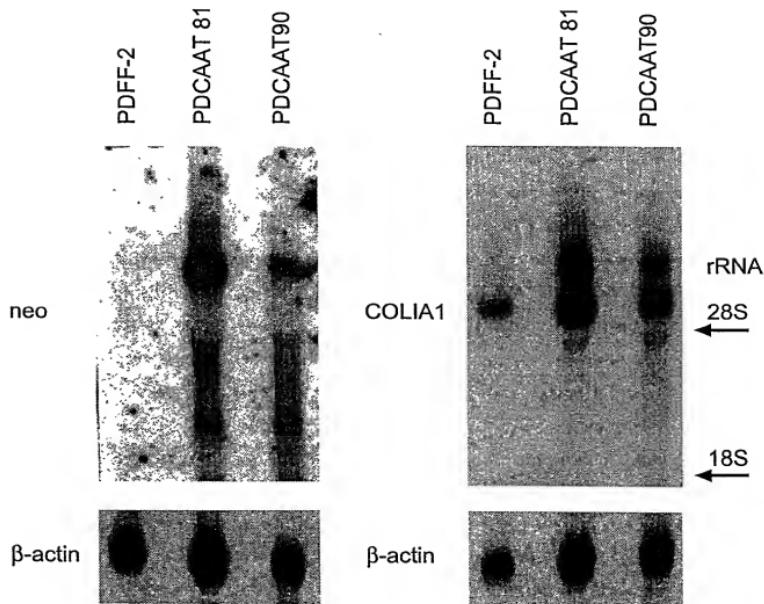
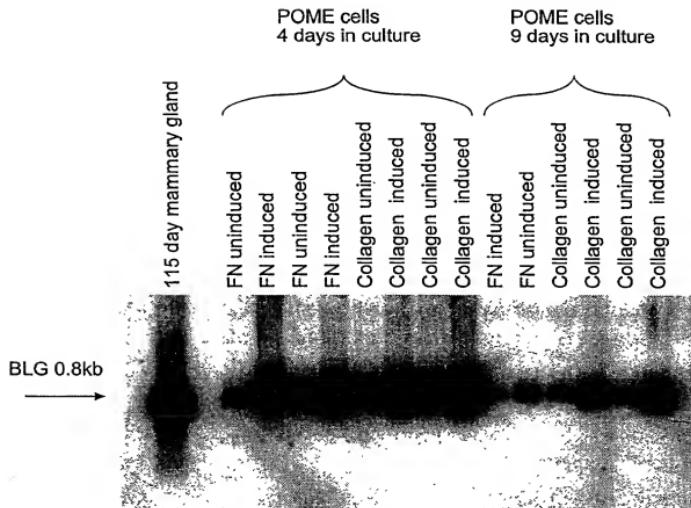


Figure 10. Northern analysis of primary ovine  
mammary cells in culture



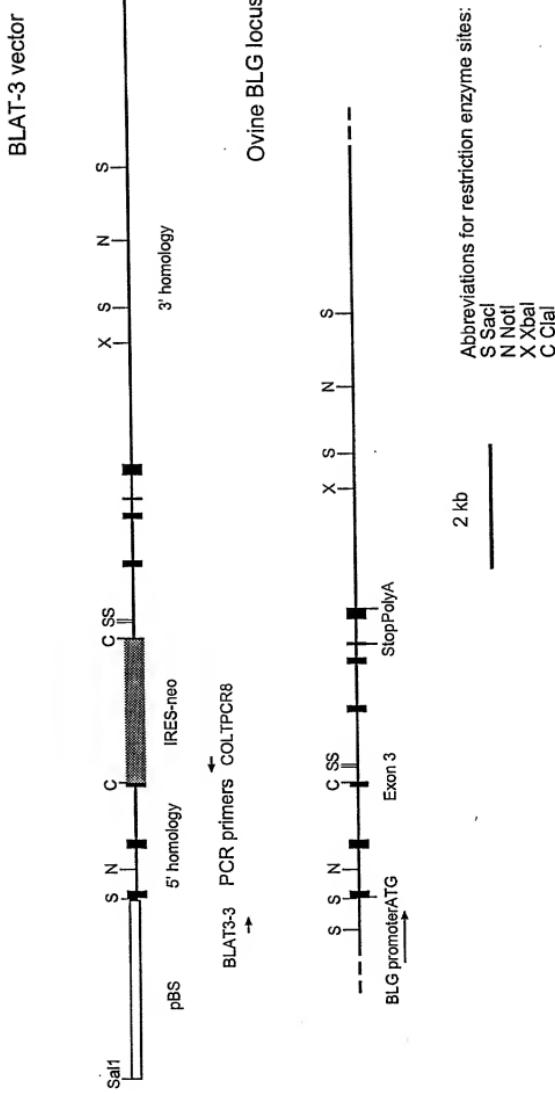


Figure 12. PCR analysis of BLAT-3 transfected POME cell clones

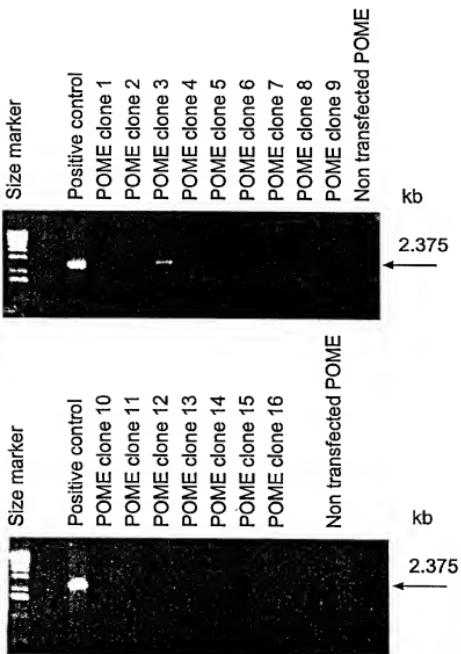


Figure 13. Promoter-trap Knockout Vector for Porcine  $\alpha$ -1,3-Galactosyltransferase Gene

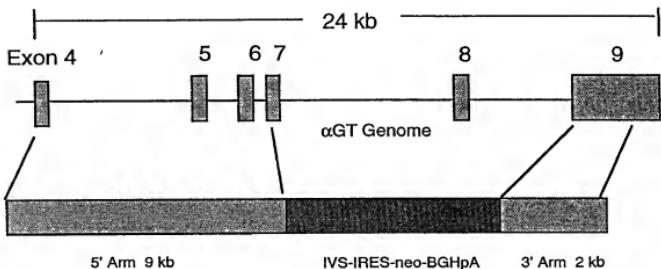


Figure 14. PCR Screening and DNA Sequencing of  $\alpha$  GT Knockout clones

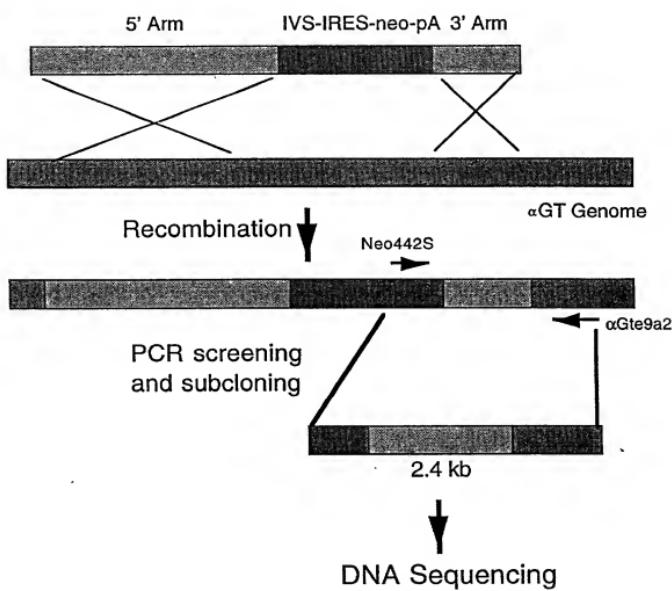
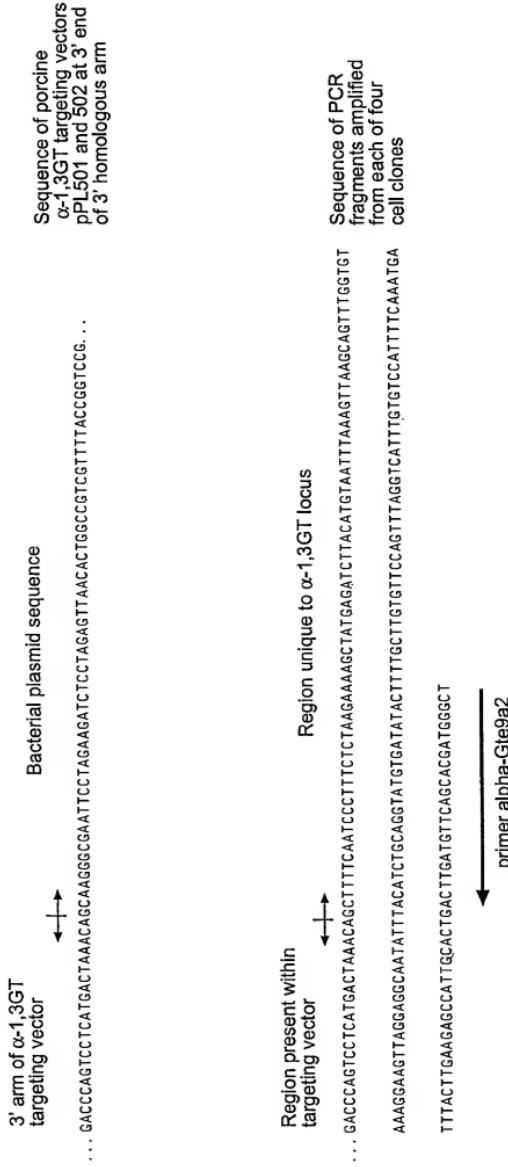


Figure 15. Sequence analysis over 3' junction region of PCR fragment amplified from porcine  $\alpha$ -1,3GT targeted locus



**Figure 16. Poly A-trap Bovine BLG Knockout Vector**

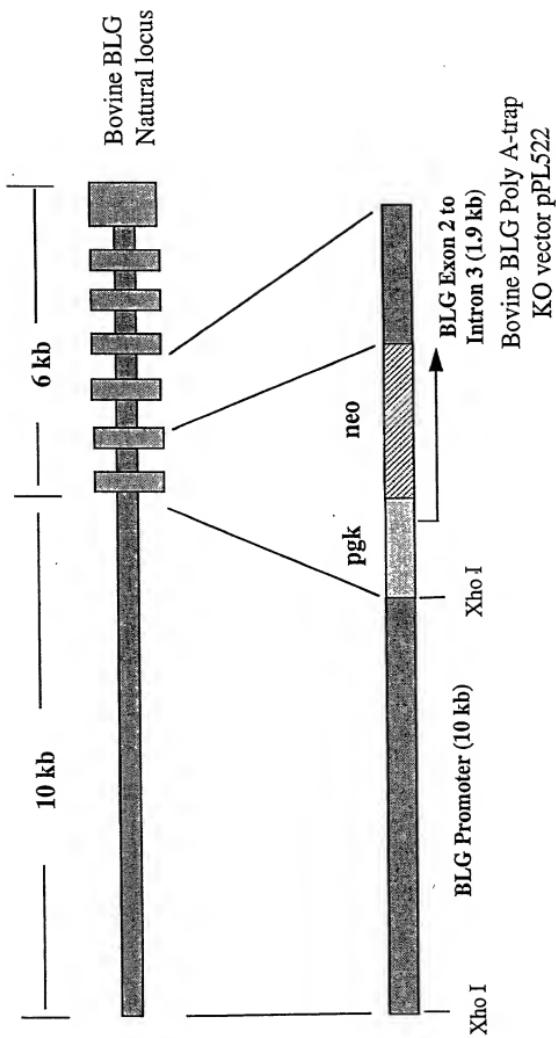


Figure 17. PCR Screening and DNA Sequencing of BLG Knockout clones

100080743 - 022502

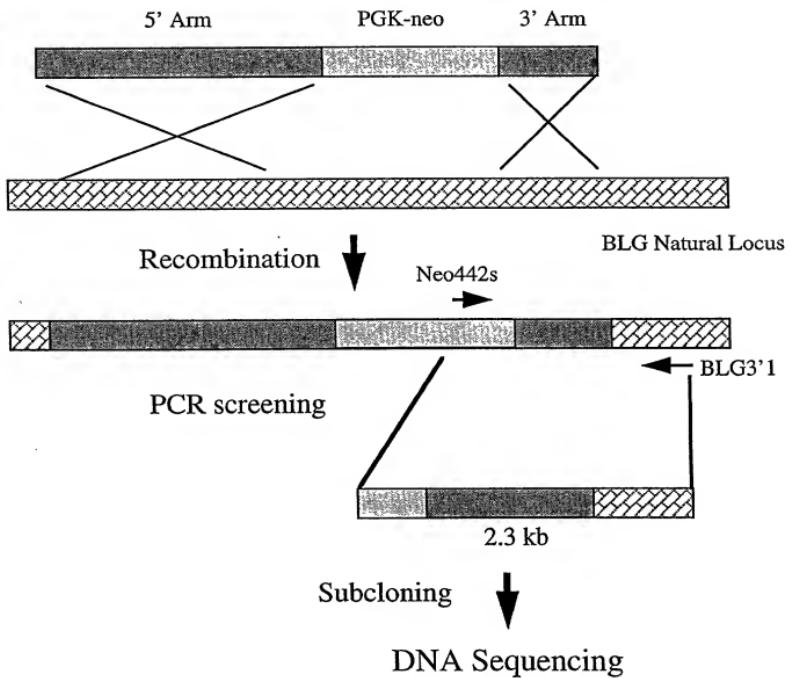


Figure 18. Sequence analysis over 3' junction region of PCR fragment amplified from bovine BLG targeted locus

